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| APPLICATION NO.      | FILING DATE                        | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|----------------------|------------------------------------|----------------------|---------------------|------------------|
| 10/578,126           | 07/17/2006                         | Pascual Perez        | 11887-00008-US      | 2989             |
|                      | 7590 03/06/200<br>SOVE LODGE & HUT | EXAMINER             |                     |                  |
| PO BOX 2207          |                                    | KALLIS, RUSSELL      |                     |                  |
| WILMINGTON, DE 19899 |                                    |                      | ART UNIT            | PAPER NUMBER     |
|                      |                                    |                      | 1638                |                  |
|                      |                                    |                      |                     |                  |
|                      |                                    |                      | MAIL DATE           | DELIVERY MODE    |
|                      |                                    |                      | 03/06/2009          | PAPER            |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

|  | Application No.  | Applicant(s)          |  |  |  |  |
|--|--|-----------------------|--|--|--|--|
|  | 10/578,126   | PEREZ ET AL.          |  |  |  |  |
| Office Action Summary  | Examiner   | Art Unit              |  |  |  |  |
|  | RUSSELL KALLIS   | 1638                  |  |  |  |  |
| The MAILING DATE of this communication app<br>Period for Reply   | ears on the cover sheet with the c   | orrespondence address |  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). |  |                       |  |  |  |  |
| Status   |  |                       |  |  |  |  |
| 1) Responsive to communication(s) filed on 5/02/   | 2006.  |                       |  |  |  |  |
|  | action is non-final.   |                       |  |  |  |  |
| <i>;</i> —   | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is  |                       |  |  |  |  |
| closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  |  |                       |  |  |  |  |
| Disposition of Claims  |  |                       |  |  |  |  |
| 4)⊠ Claim(s) <u>1-15 and 17-30</u> is/are pending in the application.  |  |                       |  |  |  |  |
| 4a) Of the above claim(s) is/are withdrawn from consideration.   |  |                       |  |  |  |  |
| 5) Claim(s) is/are allowed.  |  |                       |  |  |  |  |
| 6) Claim(s) is/are rejected.   |  |                       |  |  |  |  |
| 7) Claim(s) is/are objected to.  |  |                       |  |  |  |  |
| 8)⊠ Claim(s) <u>1-15 and 17-30</u> are subject to restriction  | on and/or election requirement.  |                       |  |  |  |  |
| Application Papers   |  |                       |  |  |  |  |
| 9) The specification is objected to by the Examine   | r.   |                       |  |  |  |  |
| 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.   |  |                       |  |  |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  |  |                       |  |  |  |  |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).   |  |                       |  |  |  |  |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.   |  |                       |  |  |  |  |
| Priority under 35 U.S.C. § 119   |  |                       |  |  |  |  |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  |  |                       |  |  |  |  |
| a) All b) Some * c) None of:   |  |                       |  |  |  |  |
| 1. Certified copies of the priority documents have been received.  |  |                       |  |  |  |  |
|  |  |                       |  |  |  |  |
| <ul><li>2. Certified copies of the priority documents have been received in Application No</li><li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li></ul>   |  |                       |  |  |  |  |
| application from the International Bureau (PCT Rule 17.2(a)).  |  |                       |  |  |  |  |
| * See the attached detailed Office action for a list of the certified copies not received.   |  |                       |  |  |  |  |
| See the attached detailed Office action for a list of the certified copies not received.   |  |                       |  |  |  |  |
|  |  |                       |  |  |  |  |
| Attachment(s)  | 4) The last and the control of the c | (DTO 442)             |  |  |  |  |
| 1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date  |  |                       |  |  |  |  |
| 3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application  |  |                       |  |  |  |  |
| Paper No(s)/Mail Date 6) Other:  |  |                       |  |  |  |  |

## **DETAILED ACTION**

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## Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-15, drawn to an isolated nucleic acid having endosperm specific gene expression promoter activity.

Group II, claim(s) 17-26 and 28-30 drawn to an isolated nucleic acid encoding a BETL protein, plants and cells transformed therewith and methods thereof.

Group III, claim(s) 27, drawn to an isolated BETL protein comprising the amino acid sequence of SEQ ID NO: 54.

The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: because the special technical feature of an isolated polynucleotide sequence that comprises a sequence that is conserved among the promoter sequences of the invention that have endosperm specific activity (see claim 1) was taught in the art. Sevilla-Lecoq teach the AE box, an 18 bp sequence present in the ZmAE3 promoter and other endosperm specific promoters (see abstract and page 4 figure 1 and in column 1 the first full paragraph), and thus there is no special technical feature.

Upon election of either Group I or II, Applicant is further required to elect one promoter sequence of either SEQ ID NO: 1, 2, 3 or 62; or one coding sequence of 6, 8, 10, 12, 14, 16, or 53 and one of the respective amino acid sequences of SEQ ID NO: 5, 7, 9, 11, 13, 15 or 58. This requirement is not to be construed as a requirement for an election of species, since each of the nucleic acid sequences or amino acid sequences recited in alternative form is not a member of a single structurally and functionally related genus, but rather constitutes an independent and

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patentably distinct invention. Separate searches and considerations would be required for examination of each of the nucleic acid sequences.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to RUSSELL KALLIS whose telephone number is (571)272-0798.

The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Anne Marie Grunberg can be reached on (571) 272-0975. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Russell Kallis/

Primary Examiner, Art Unit 1638

March 3, 2009